

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>108030-5PCT</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/US 03/30061</b>	International filing date (day/month/year) <b>24/09/2003</b>	(Earliest) Priority Date (day/month/year) <b>26/09/2002</b>
Applicant  <b>HYDRO-PHOTON, INC.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 7 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☒ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

1  
☐ None of the figures.

## Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The abstract is changed as follows:

Line 02: after "system" insert "(10)"

Line 03: after "module" insert "(22)"

Line 05: after "mouthpiece" insert "(18)" and after "module" insert "(22)"

Line 09: after "sensor" insert "(20)"

Line 11: after "bladder" insert "(12)" and after "backpack" insert "(19)".

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP03/30061

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 A45F3/04 A45F3/16 C02F1/32

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 C02F A45F A61L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 845 504 A (LEBLEU TERRY L) 8 December 1998 (1998-12-08)  column 1, line 13 - line 37 column 8, line 47 - column 14, line 42 column 16, line 26 - line 40; figures 2-4 ---	15-17, 20, 26, 32, 33, 37, 38, 40
A	WO 00 09449 A (FERGUSON JOHN M) 24 February 2000 (2000-02-24) the whole document ---	1-43
A	WO 02 12127 A (COLOR KINETICS INC) 14 February 2002 (2002-02-14) the whole document ---	1-43
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

28 January 2004

Date of mailing of the international search report

04/02/2004

Name and mailing address of the ISA

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Liebig, T

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/03/30061

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 849 100 A (PAPANDREA ROCCO A) 18 July 1989 (1989-07-18) column 1, line 66 -column 4, line 8; figures 1-4 ---	1-43
A	US 4 762 613 A (SNOWBALL MALCOLM R) 9 August 1988 (1988-08-09) the whole document ---	1-43
A	DE 42 28 860 A (BRUECK GERNOT KLAUS) 3 March 1994 (1994-03-03) the whole document -----	1-43

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claim : 1

wearable hydration system, including solid state UV device

2. Claims: 15,32,38

water purifier including a flow sensor, tubing and a solid state UV device

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 03/30061

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT 03/30061

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5845504	A	08-12-1998	US 5669221 A	23-09-1997
			AU 2800397 A	29-10-1997
			BR 9708616 A	03-08-1999
			CA 2251095 A1	16-10-1997
			CN 1225715 A ,B	11-08-1999
			EP 0891523 A1	20-01-1999
			IL 126461 A	14-08-2002
			US 6058718 A	09-05-2000
			WO 9738272 A1	16-10-1997
			US 6182453 B1	06-02-2001
			EG 21410 A	31-10-2001
			ID 16418 A	25-09-1997
			ZA 9702974 A	08-01-1999
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WO 0009449	A	24-02-2000	AU 5673999 A	06-03-2000
			WO 0009449 A2	24-02-2000
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WO 0212127	A	14-02-2002	AU 8539801 A	18-02-2002
			WO 0212127 A2	14-02-2002
			US 2002074559 A1	20-06-2002
			AU 1782501 A	30-05-2001
			EP 1234140 A2	28-08-2002
			JP 2003517705 T	27-05-2003
			WO 0136864 A2	25-05-2001
			US 2002176259 A1	28-11-2002
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US 4849100	A	18-07-1989	NONE	
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US 4762613	A	09-08-1988	GB 2175777 A	03-12-1986
			EP 0202781 A2	26-11-1986
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DE 4228860	A	03-03-1994	DE 4228860 A1	03-03-1994
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